

**WHAT IS CLAIMED IS:**

1. A method of controlling a trajectory of a wellbore, the method comprising:
  - (a) conveying a drilling assembly in the wellbore, said drilling assembly  
5 including a first adjustable stabilizer and a second stabilizer; and
  - (b) adjusting a position of a first center of said first adjustable stabilizer in the  
wellbore relative to a second center of said second stabilizer based on a  
desired wellbore trajectory.
2. The method of claim 1 wherein said second stabilizer comprises an adjustable  
10 stabilizer.
3. The method of claim 1 wherein the second stabilizer is a fixed blade stabilizer.
4. The method of claim 1 wherein the adjustable stabilizer has a first set of ribs  
containing a plurality of independently controllable ribs.
5. The method of claim 3 wherein the second stabilizer has a second set of ribs  
15 containing a plurality of independently controllable ribs.
6. The method of claim 1, wherein the second stabilizer has an under-gage outer  
diameter.
7. The method of claim 1 further comprising measuring inclination of one of (i) the  
drilling assembly or (ii) said wellbore.
- 20 8. The method of claim 1 further comprising drilling said wellbore along a

predetermined well path.

9. The method of claim 1 further comprising determining a parameter indicative of direction of drilling of said wellbore.

10. The method of claim 9 further comprising altering drilling direction of said wellbore if said parameter is outside a predetermined limit.

11. The method of claim 9 wherein altering said drilling direction includes altering force applied by at least one rib in said first set of ribs.

12. The method of claim 5 further comprising adjusting the position of the second stabilizer by adjusting the extension of at least one rib of said second set of ribs.

13. A system of controlling a trajectory of a wellbore, the system comprising:

- a. a drilling assembly deployed in said wellbore by a rotatable tubular member, said drilling assembly including a drill bit at an end thereof that is rotatable by a drilling motor carried by the drilling assembly;
- b. a first adjustable stabilizer disposed in said drilling assembly having a first set of ribs spaced around said first adjustable stabilizer, with each rib being independently radially extendable;
- c. a second stabilizer spaced apart from said first adjustable stabilizer; and
- d. a controller in the drilling assembly adjusting the position of a first center of the first adjustable stabilizer in the wellbore relative to a second center of the

second stabilizer in the wellbore for controlling the trajectory of the wellbore wherein the position of the first center relative to the second center is determined at least in part upon a desired wellbore trajectory stored in the controller in the drilling assembly.

5    14.    The system of claim 13, wherein the second stabilizer comprises a fixed blade stabilizer.

15.    The system of claim 13, wherein the second stabilizer comprises an adjustable stabilizer having a second set of ribs containing a plurality of independently controllable ribs.

10    16.    The system of claim 13, wherein the second stabilizer has an under-gage outer diameter.

17.    The system of claim 13, further comprising a sensor for measuring inclination of at least one of (i) the drilling assembly and (ii) said wellbore.

15    18.    The system of claim 13, further comprising at least one sensor for determining a direction of the wellbore.

19.    The system of claim 18 wherein said at least one of said first set of ribs is controlled to alter said drilling direction by altering a force applied by at least one rib in said first set of ribs.

20    20.    The system of claim 15 wherein the position of the second stabilizer is adjusted by changing the extension of at least one rib of said second set of ribs.